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for increasing likelihood of effectiveness  
comprises administering a cancer treatment  
*erbB* gene in tumor cells in a tissue sample  
according to claim 1, wherein the ErbB  
according to claim 2, wherein the cancer  
according to claim 3, wherein the subject  
mistry on a formaldehyde-fixed tissue  
according to claim 1, wherein the ErbB  
according to claim 5, wherein the  
monoclonal antibody (rhuMAb) 4D5.  
according to claim 1 wherein the *erbB*  
of a fluorescent-labeled nucleic acid probe

ing to claim 2, wherein

ing to claim 2, wherein

ing to claim 3, wherein the  
on a formaldehyde-fixe

ing to claim 1, wherein the

...ing to claim 5, where  
...al antibody (rhuMAb) 4

According to claim 1 wherein the nucleic acid is a fluorescently-labeled nucleic acid.

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1 8. The method according to claim 7, wherein the *erbB* gene is a *her2* gene..

1 9. The method according to claim 1, which further comprises administering a  
2 cancer treating dose of a chemotherapeutic drug.

1 10. The method according to claim 9, wherein the ErbB is HER2 and the  
2 chemotherapeutic drug is a taxoid.

1 11. The method according to claim 1 wherein the likelihood of effectiveness  
2 increases by about 30%.

1 12. A method for increasing likelihood of effectiveness of an anti-HER2 antibody  
2 to treat cancer, which method comprises administering a cancer treating dose of the anti-HER2  
3 antibody to the subject, wherein a *her2* gene in tumor cells in a tissue sample from the subject have  
4 been found to be amplified.

1 13. The method according to claim 12, wherein the subject has been found to have  
2 a 0 or 1+ score by immunohistochemistry on a formaldehyde-fixed tissue sample.

1 14. The method according to claim 12, which further comprises administering a  
2 cancer treating dose of a taxoid.

TOP SECRET

- 1 15. A pharmaceutical package comprising:
- 2 (a) a container comprising an ErbB antagonist for treating a cancer; and
- 3 (b) instructions to administer the ErbB antagonist to a subject if an *erbB* gene in
- 4 tumor cells in a tissue sample from the subject is amplified.

1 16. The package of claim 15, wherein the ErbB antagonist is an antibody.

1 17. The package of claim 16, wherein the antibody is an anti-HER2 antibody.

1 18. The package of claim 17, wherein the anti-HER2 antibody is rhuMAb 4D5

2 (Herceptin®).

1 19. The package of claim 15, wherein the instructions further comprise directions

2 to administer a chemotherapeutic drug in combination with the ErbB antagonist.

1 20. The package of claim 19, wherein the chemotherapeutic drug is a taxoid.

1 21. A method for identifying a patient disposed to respond favorably to an ErbB

2 antagonist for treating cancer, which method comprises detecting *erbB* gene amplification in tumor

3 cells in a tissue sample from the patient.

TO BE USED FOR THE 9300

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- 1 22. The method according to claim 21, wherein the subject has been found to have  
2 a 0 or 1+ score by immunohistochemistry on a formaldehyde-fixed tissue sample.

- 1 23. The method according to claim 21, wherein the erbB is *her2*.

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